

[0027] It will be appreciated by those skilled in the art that changes could be made to the embodiments described above without departing from the broad inventive concept thereof. It is understood, therefore, that this invention is not limited to the particular embodiments disclosed, but it is intended to cover modifications within the spirit and scope of the present invention as defined by the appended claims.- -

#### **- -ABSTRACT OF THE DISCLOSURE**

A method for manufacturing a sealed temperature probe, including a cable (C) provided with at least a pair of conducting wires (F) insulated by respective sheaths (P) and ending with an exposed length where a sensor (S) is soldered, provides the introduction of the sensor (S) and exposed length of wires (F) into a covering element prior to the overmolding of the probe terminal with a thermoplastic material (M) same as or compatible with the material of the sheaths (P). In the probe thus manufactured the covering element may be either the end portion of an outer sheath (G) or a covering tube (N), possibly long enough to be slipped on the cable (C) and/or made with two layers of different materials coupled so as to form a single element.- -